

AIDS VIRUS VACCINES USING SENDAI VIRUS VECTORAbstract of the Disclosure

The present invention provides a vaccine containing a  
5 Sendai virus vector encoding a virus protein of an  
immunodeficiency virus. By intranasally administering a Sendai  
virus encoding a virus protein of an immunodeficiency virus to a  
macaque monkey, the present inventors have succeeded in  
efficiently inducing protective immunity against an  
10 immunodeficiency virus. As a result of intranasal inoculation  
of vaccine, expression of an antigen protein mediated by Sendai  
virus vector was detected in intranasal mucous membrane and  
local lymph nodes and antigen-specific cellular immune response  
was induced at a significant level. No pathological symptom by  
15 vaccination was observed. After vaccination, exposure of simian  
immunodeficiency virus was performed and the effect was  
examined. As a result, the amount of virus in plasma  
significantly decreased, compared with that of the control  
animal. The present invention provides a promising vaccine as  
20 an AIDS vaccine.